APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

Toropov, N. A. and Boikova, A. I.
TRICALCIUM SILICATE AND ITS SOLID SOLUTIONS (Trekhal'tsievyi Silikat i Ego Tverdye Rastvory) tr. by H. A. Berman. [1963] [11]p. 11 refs.
Order from OTS, SLA or ETC $1.60 TT-63-23767

Trans. of mono. Novoe v Khimii i Tekhnologii Tsementa (New Developments in the Chemistry and Technology of Cement) Moscow, 1962, p. 61-66 (Soveshchaniya po Khimii i Tekhnologii Tsementa (Conference on the Chemistry and Technology of Cement) 1961. Trudy, p. 61-66).

DESCRIPTORS: *Calcium compounds, *Strontium compounds, Oxides, *Silicates, Mixtures, Solubility, Synthesis (Chemistry), Microscopy, Refractive index, Calorimetry, Transition temperature, X-ray diffraction analysis, Crystal structure, *Cements,

(Chemistry--Physical, TT, v. 11, no. 1) (over)

TT-63-23767

I. Toropov, N. A.
II. Boikova, A. I.
III. Title: New ...
IV. Title: Soveshchaniya...
V. Title: Conference ...
VI. National Bureau of Standards, Washington, D. C.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

Synthesis and Investigation of Neodymium Aluminate and Silicates, by N. A. Toropov, T. P. Kiseleva, 4 pp

RUSSIAN, per, Zhur Prik Zhim, Vol XXXIV, No 3, 1961, pp 498-500

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Feb 62

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Study of Crystallization Processes Occurring in the System $CaO-Al_2O_3-SiO$ on Introduction of 10% of CaF_2, by N. A. Toropov, I. A. Bondar, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 9 1959, pp 1520-1925.

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Effect of Calcium Fluoride on the Crystallization Process in the Triple System $CaO-Al_2O_3-SiO_2$, by N. A. Toropov and I. A. Bondar'.

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Mar 61

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Model Systems of Na_2BeF_4-Li_2BeF_4 and Ca_2SiO_4-Mg_2SiO_4, by N. A. Toropov, I. L. Shchetnikova, 17 pp.

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APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Solid Solutions in the System Al_2O_3-SiO_2,
by N. A. Toropov, F. Ya. Galakhov, 5 pp.

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II. Model Systems: Na_2BeF_4-Li_2BeF_4 and Ca_2SiO_4-Mg_2SiO_4, by N. A. Toropov, I. L. Shchetnikova, 15 pp.

RUSSIAN, per, Zhur Neorg Khim, Vol II, No 8, 1957, pp 1855-1863.

AEC-tr-4058
PE-480

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PST No 85

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Crystallization of Hillebrandite Under Hydro-
thermal Conditions, by G. P. Stavitskaya, Yu. I.
Smolin, N. A. Toropov, E. A. Porai-Koshits, 4 pp.

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Infra-red Absorption Spectra of Hydrated Silicates, by Ya. I. Ryskin, G. P. Stavitskaya, N. A. Toropov, 5 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol V, No 12, 1960, pp 2727-2734.

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APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

Toropov, N. A. and Volkonskii, B. V.
POLYMORPHIC TRANSFORMATION OF $3CaO \cdot SiO_2$ AND THE INFLUENCE OF FERROUS OXIDE ON $3CaO \cdot SiO_2$ AND OTHER CLINKER MINERALS
(Polimorfnye Prevrashcheniya $3CaO/SiO_2$ i Vliyanie Zakisi Zheleza na $3CaO \cdot SiO_2$ i Drugie Klinkernye Mineraly) tr. by G. N. Gibson. Mar 61 [6]p. 7 refs.
DSIR Library Communication no. 1041.
Order from OTS or SLA $1.10 61-27055

Trans. of Tsement (USSR) 1960, v. 26, no. 6, p. 17-20.

DESCRIPTORS: Calcium compounds, *Silicates, *Cements, Minerals, Crystal structure, Polymorphism, Transformations, Iron compounds, Oxides.

Experiments show that tricalcium silicate exists in two modifications. The transition to the high-temperature modification takes place at 1375° C. The time required for the disintegration of tricalcium silicate to free calcium oxide and dicalcium silicate, at 1900° C, is about
(Materials, TT, v. 6, no. 5) (over)

61-27055

I. Toropov, N. A.
II. Volkonskii, B. V.
III. LC-1041
IV. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Toropov, N. A., Borisenko, A. I., and Shirokova, P. V.

INVESTIGATION OF THE SYSTEM TRICALCIUM SILICATE-TRICALCIUM PHOSPHATE (Issledovaniye Sistemy Trekhkaltsievyi Silikat-Trekhkaltsievyi Fosfat) tr. by G. N. Gibson. May 54, 5p. 4 refs. Library Communication no. 663; TL 1584; M2179. Order from LC or SLA mi$1.80, ph$1.80 61-13674

Trans. of A[kademiya] Nauk SSSR. Doklady, 1953, v. 92, no. 5, p. 1015-1018.

(Chemistry--Physical, TT, v. 5, no. 1)

61-13674

1. Cements--Chemical reactions
2. Calcium oxide-phosphorus pentoxide-silicon dioxide systems--Phase studies

I. Toropov, N. A.
II. Borisenko, A. I.
III. Shirokova, P. V.
IV. LC-663
V. Trans-TL-1584
VI. DSIR LLU M. 2179
VII. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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The Diagram of State of the Ternary System BaO-Al_2O_3-SiO_2, by N. A. Toropov, F. Ya. Galakhov, I. A. Bondar, 10 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim, No 5, Sep-Oct 1954, pp 753-764. CIA C 39501

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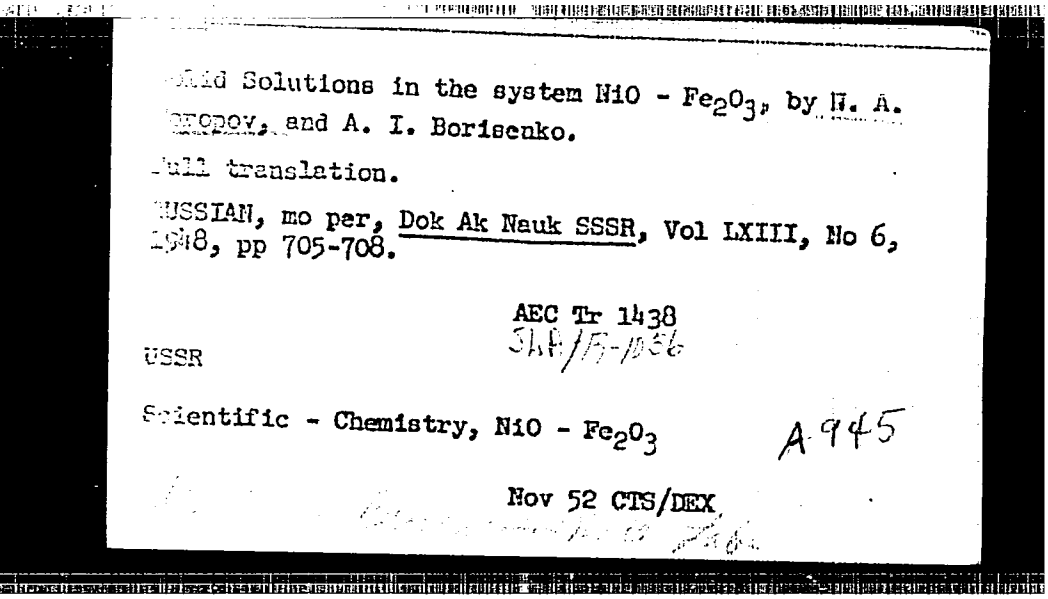

Solid Solutions in the system NiO - Fe_2O_3, by N. A. Tolstopov, and A. I. Borisenko.

Full translation.

RUSSIAN, mo per, Dok Ak Nauk SSSR, Vol LXIII, No 6, 1948, pp 705-708.

AEC Tr 1438
SLA/15-1056

USSR

Scientific - Chemistry, NiO - Fe_2O_3 A-945

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APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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The Problem of the Polymorphism of Di-Calcium Silicate, by N. A. Toropov, B. V. Volkonsky, V. I. Sadkov, 4 pp.

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JSIR 36515/cT

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Solid Solutions in the System CoO - Fe_2O_3, by N. A. Toropov, E. A. Porai-Koshits, and A. I. Borisenko.

Full translation.

RUSSIAN, no per, Dok Ak Nauk SSSR, Vol LXVI, No 5, 1949, pp 905-908.

VI

Sta L K-1023
AEC Tr 1439

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Nov 52 CIS/DEX

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Solid Solutions of Calcium Aluminoferrites, by N. A. Toropov, A. I. Boikova, 10 pp.

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Phase Composition and Some Ferromagnetic Properties of Manganese-zinc Ferrites, by N. A. Toropov, L. I. Rubkin, E. Zh. Freydenfel'd, B. Sh. Epshtein, 19 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Prik Khim, Vol XXVI, No 9, 1953, pp 982-990. CIM D 146080

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New orthosilicates of calcium and sodium, by N. A. Toropov, and O. I. Arakelyan.

RUSSIAN, par, Dok Ak Nauk SSSR, 1950, Vol No 72, (2), 1950, pp 365-8.

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[illegible]703

A270

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Thermal Stability of Rock Wool, by N. A. Toropov, M. M. Sychev, 4 pp.

RUSSIAN, mo per, Zhur Prik Khim, Vol XXVIII, No 3, USSR, Mar 1955, pp 322-324. CIA D 270075

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CTS 71/Aug 1955

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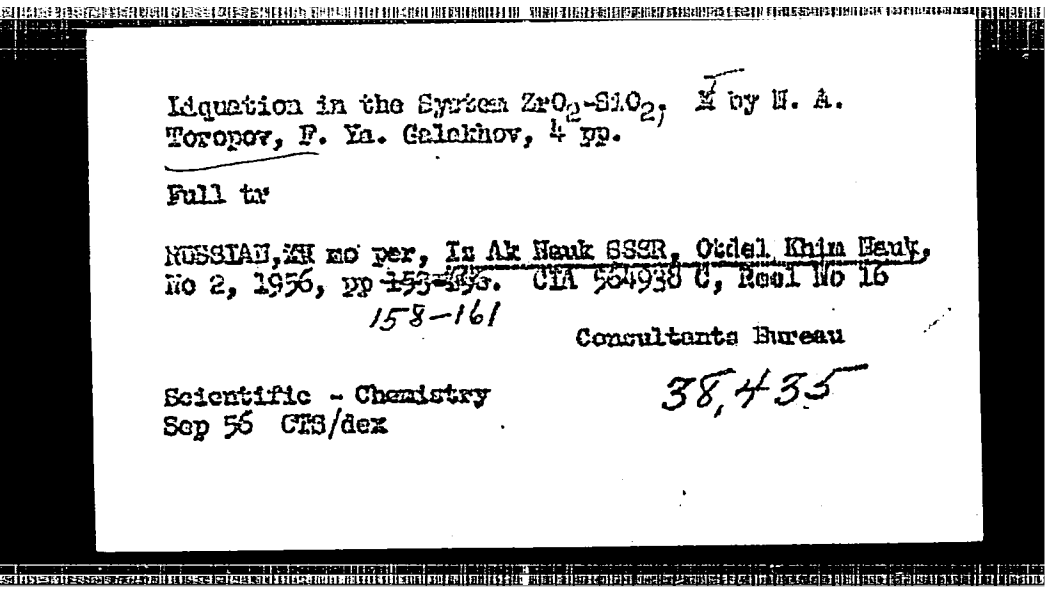

Idquation in the System ZrO_2-SiO_2, X by M. A. Toropov, F. Ya. Galakhov, 4 pp.

Full tr

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Phase Diagram of the Ternary System CaO-BaO-SiO_2,
by N. A. Toropov, F. Ya. Galakhov, I. A. Bondar,
10 pp.

RUSSIAN, mo per, Iz Ak Nauk, Otdel Khim Nauk, XXX
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New Data on the System Al_2O_3 - SiO_2, by N. A. Toropov, F. Ya. Galakhov, 7 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXXVIII, No 2, 1951, pp 299-302.

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Mar 54 CIS

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Some Conditions for the Synthesis of Zinc Ferrites, by N. A. Toropov, A. I. Borisenko, 2 pp.

RUSSIAN, mo per, Zhur Prik Khim, Vol XXVIII, No 12, Dec 1955, pp 1347-1348. CIA C 43311

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Investigation of the System Ferrite-Calcium Aluminate, by M. A. Toropov, A. I. Boilova. UMCL

RUSSIAN, per, Zhur Neorg Khim, Vol I, No 9, 1956, pp 2106-2109.

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APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Field of Solid Solutions Formed by Celsian, Dibarium Trisilicate, and Barium Disilicate (Sanbornite), by N. A. Toropov, F. Ya. Galakhov, I.A. Bondar, 6 pp.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 1, Jan/Feb 1955, pp 3-8. CIA D 151341

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APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Fluoro-Beryllate and Other Crystallochemical Analogous Silicates and Similar Substances, by N. A. Toropov, I. A. Bondar'

RUSSIAN, per, Uspekhi Khimii, Vol XXIV, No 1, 1955, pp 52-68.

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2135 Spruce Street
Phila. 3, Pa.

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APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

Scientific Institutions of Czechoslovakia Working in the Field of Silicate Chemistry and Technology, by N. A. Toropov, V. P. Barzakovsky, 4 pp.

RUSSIAN, no per, Steklo i Keramika, Vol XIII, No 3, Mar 1956, pp 25-27.

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APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Solid Solutions in the Sphene System Al_2O_3-SiO_2,
by N. A. Toropov, F. Ya. Galakhov. USSR

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 1, 1958, pp 8-11.

DSIR 35036/CT

Sci - Chem
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APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Hydrated Calcium Silicates, by N. A. Toropov, A. I. Borisenko, P. V. Shirokova, 4 pp.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 1, Jan-Feb 1953, pp 65-69.

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An Investigation of the System CuO - Fe_2O_3, by N. A. Toropov, and A. I. Borisenko.

Full translation.

RUSSIAN, no per, Dok Ak Nauk SSSR, Vol LXXI, No 1, 1950, pp 69-71.

AEC Tr 1436
SHA/R-1024

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A 942

Scientific - Chemistry, CuO - Fe_2O_3

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APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Dehydration of Calcium Hydrosilicate 2CaO · SiO_2 · H_2O (Hillebrandite), by N. A. Toropov, Kh. S. Nikogosyan, A. I. Boikova, 2 p.

RUSSIAN, per, Zhur Neorg Khim, Vol IV, No 5, 1959, pp 1159-1164.

Cleaver-Hume Press Ltd.
London

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APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

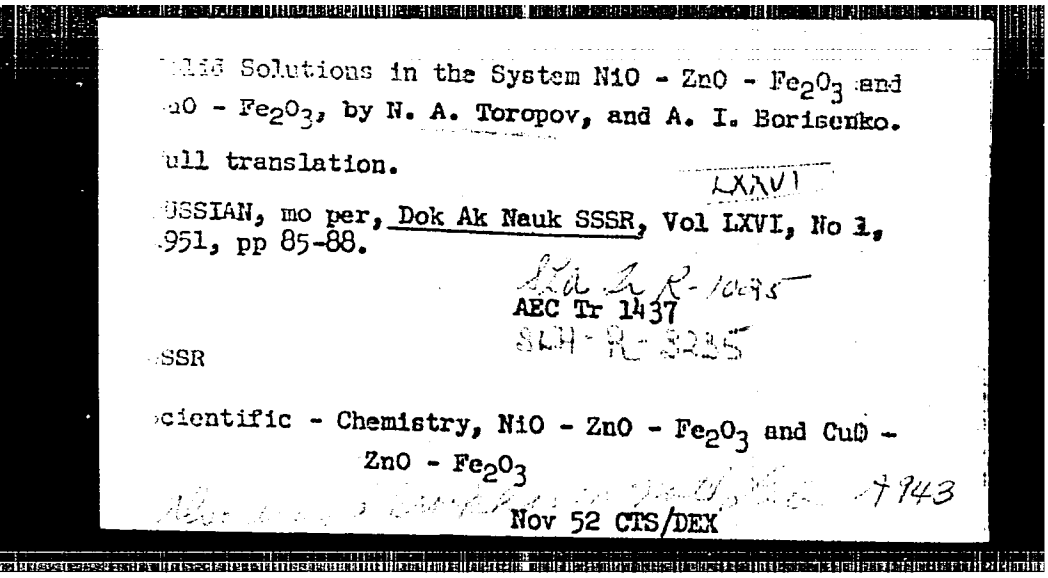
Phase Diagram of the Ternary System $BaO-Al_2O_3-SiO_2$,
by N. A. Toropov, F. Ya. Galakov, I. A. Bondar

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
Vol LXXXIX, No 1, 1953, pp 89-92,

Co-op Tr Sch 76
RT 3627
Sci Mus Lib 56/0877
Scientific - Chemistry 14,844
£1.12s(4s.0d.) Jun 54 CTS

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00



lid Solutions in the System NiO - ZnO - Fe_2O_3 and
nO - Fe_2O_3, by N. A. Toropov, and A. I. Borisenko.

ull translation.

USSIAN, mo per, Dok Ak Nauk SSSR, Vol LXVI, No 1,
951, pp 85-88.

LXXVI

AEC Tr 1437

SSR

cientific - Chemistry, NiO - ZnO - Fe_2O_3 and CuO -
ZnO - Fe_2O_3

Nov 52 CTS/DEK

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Stoichetry and Polymorphism of Tricalcium Sili 42
cate, A. I. Boikova and N. A. Toropov
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No 6: 1428-31
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N.A. Toropov

Sci-chem
July 69 385,692

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Measurements of Neutron Spectra for Energies Below 0.5 Mev by a Time-of-Flight Method, by Iu. A. Vasil'ev, Iu. S. Zamiatnin, P. V. Toropov, E. F. Fomushkin, 4 pp.

RUSSIAN, par, Atomnaya Energiya, Vol III, No 12, 1957, pp 542-543.

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Sci - Physics

Oct 58

74, 482.

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Appareil Pour le Dosage de la Silice par la Methode Thermique, by S. A. Toropov, Ts. A. Goldina, 8 p.

RUSSIAN to FRENCH, per, Zavod Lab, 1956, Vol XXII, No 9, pp 1118-1120.

CEA-tr-R232

Sci
Feb 60
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APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

Toropov, S. A. and Khabarov, P. G.
INDIVIDUAL MEANS OF PROTECTION AGAINST AGGRESSIVE SUBSTANCES (Individual'nyye Sredstva Zaschity ot Agressivnykh Veshestv). 20 Jan 61, 3p. JPRS: 7553.
Order from OTS $0.50 61-21182

Trans. of Gigiyena Truda i Professional'nyye Zabolevaniya (USSR) 1960, v. 4, no. 6, p. 61.

Materials developed for protective garments to be worn by factory workers who handle acids are described. Special reference is made to perchlorovinyl fibers.

(Personnel Supplies and Personal Equipment, TT, v. 5, no. 8)

61-21182

1. Acids--Hazards
2. Protective clothing--Development
3. Vinyl polymers--Applications
4. Synthetic fibers--Applications
I. Toropov, S. A.
II. Khabarov, P. G.
III. JPRS-7553
IV. Joint Publications Research Service, New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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On the Mechanism of Hot Cracking of Welds, by V. A. Toropov.

RUSSIAN, mo per, Metallovedenie i Obrabotka Metallov, No 6, Moscow, Jun 1957, pp 54-58.

Brutcher Tr 3982
$4.80

Sci - Min/Met

Jan 58

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APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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Role of the Grain-Boundary Substance in the Hot Cracking of [Austenitic] Welds, by V. A. Toropov.

RUSSIAN, mo per, Metallovedenie i Obrabotka Metallov, Vol II, No 4, 1956, pp 45-50.

Henry Brutcher Tr 3809

$5.90 43,908

Sci - Physics
Feb 1957 CFS

APPROVED FOR RELEASE: Wednesday, November 14, 2001 CIA-RDP84-00581R00

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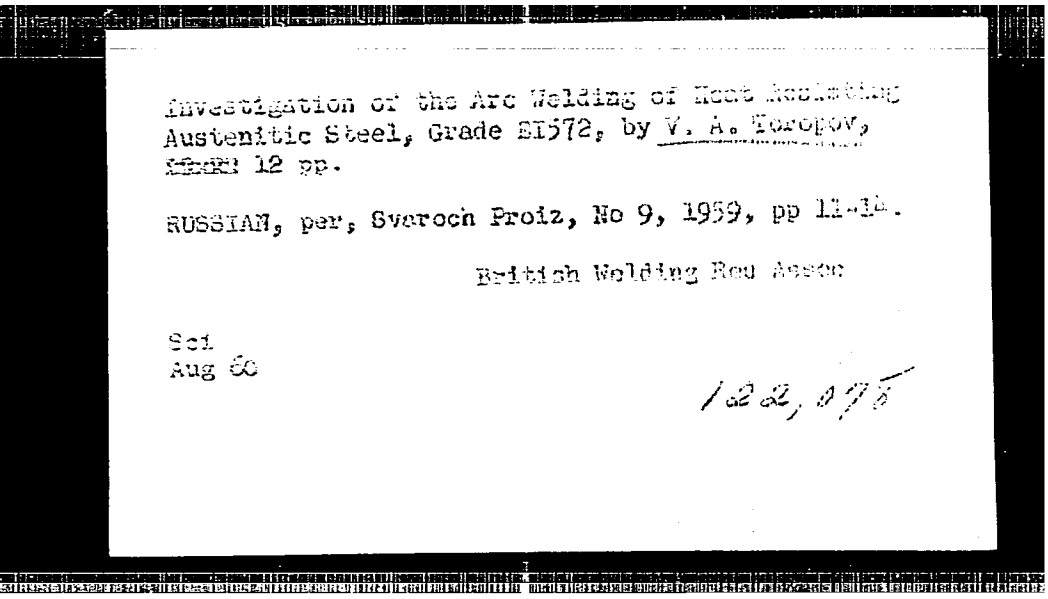

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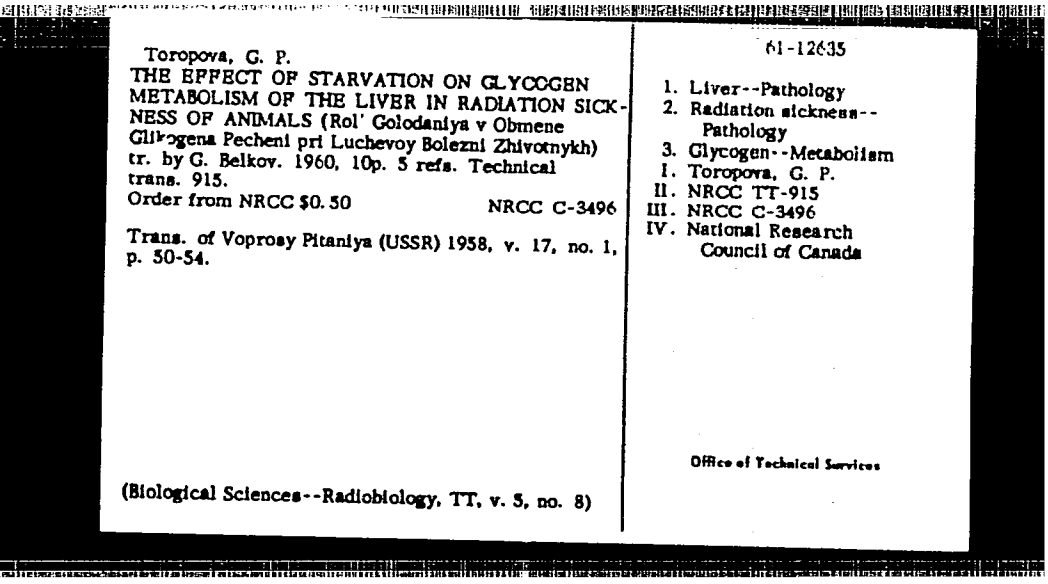

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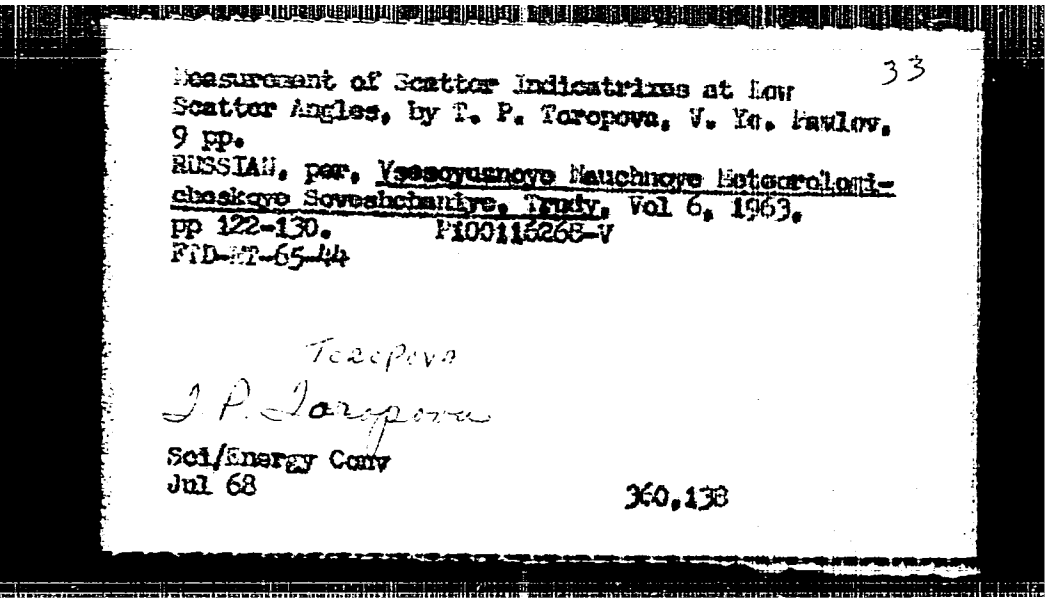

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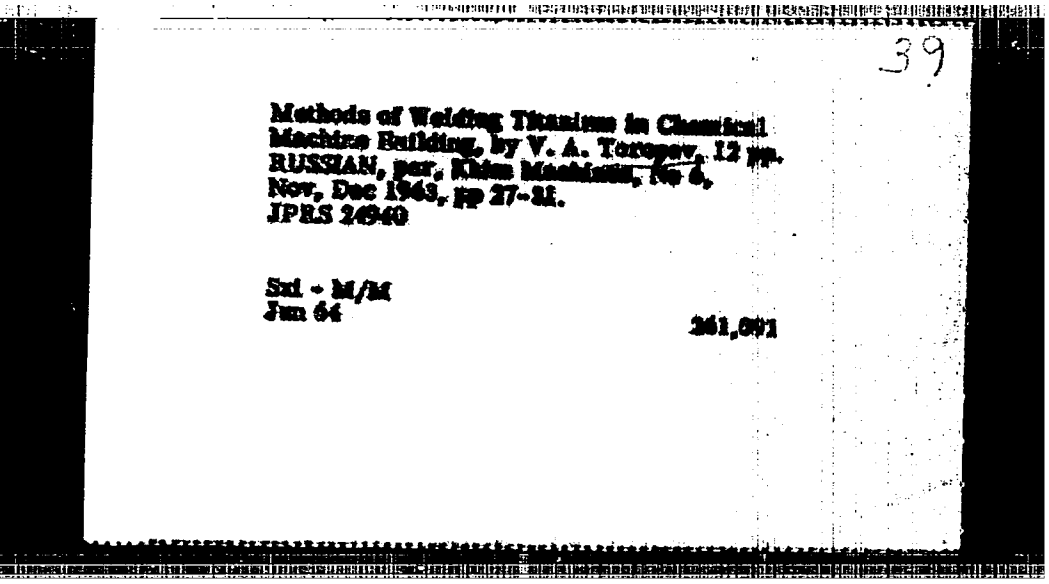

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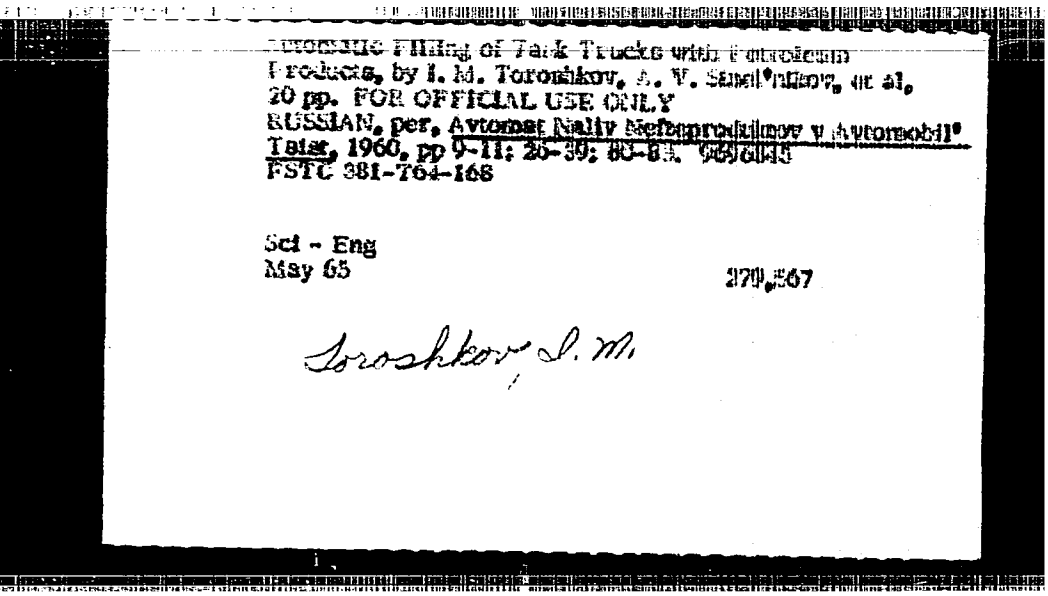

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D. van der Torre

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